

**MEDICAL UNIVERSITY OF SOUTH CAROLINA**

**CURRICULUM VITAE**

**Margaret Markiewicz, M.D.**

**Education**

Medical Academy of Wroclaw      1979-1987      MD/1987      Medicine  
Poland (under and postgraduate)

**Internship**

Public Hospital of Kedzierzyn-Kozle, Poland, 1988

**Residency/Post Doctoral**

ENT Residency, Public Hospital of Kedzierzyn-Kozle, Poland, 1992-94  
Post Doctoral Fellow, MUSC Division of Rheumatology & Immunology, 1998-2001  
Post Doctoral Fellow, MUSC Pharmacology Training Grant, 2002

**Faculty Appointments**

2003-present    Assistant Professor, Dept. of Medicine, Division of Rheumatology & Immunology,  
Medical University of South Carolina

**Other Experience**

1989-1994    Physician, Industrial Outpatient Clinic, Kedzierzyn-Kozle, Poland  
1997          Volunteer in lab of Maria Trojanowska, Ph.D., Medical Univ of South Carolina

**Awards, Honors, Memberships in Honorary Societies**

2001    Department of Pharmacology Training Grant Fellow  
2005    Scleroderma Foundation New Investigator Award  
2008    Member of American Society for Matrix Biology

**Research Support**

Cytomegalovirus infection and pathogenesis of scleroderma  
Principal Investigator: E. Carwile LeRoy, M.D.  
Agency: RGK Foundation    Type: Investigator initiated      Period: 1/1/98-12/31/01

Cytomegalovirus and human fibrosis  
Principal Investigator: E. Carwile LeRoy (replaced by Trojanowska)  
Agency: Scleroderma Foundation    Type: research grant      Period: 1/1/02-1/1/04

Mechanisms of endothelial cell damage in scleroderma

Principal Investigator: Maria Trojanowska, Ph.D.

Agency: NIAMS Type: R21 AR50798-01

Period: 10/1/03-5/31/05

Role of TGF-beta and CTGF in the process of new vessel formation in scleroderma

PI: Margaret Markiewicz, M.D.

Agency: Scleroderma Foundation Type: new investigator award

Period: 1/29/05-12/31/07

Role of ETS Genes in Transformation and Differentiation

Principal Investigator: Dennis Watson, Ph.D.

Project 3 Leader: Trojanowska for "Fli1 and Ets1 in stromal activation in breast cancer"

Agency: NCI Type: P01 CA78582-07

Period: 6/15/2005-3/31/2010

### Lectures and Presentations (posters)

Gore E, Markiewicz M, Lo S, Grotendorst G, Greene E, Hazen-Martin D, and Trojanowska M. Connective tissue growth factor (CTGF) is a transcriptional activator of collagen type I gene expression in human mesangial cells (HMC). *J Am Soc Nephrol* 11 A2786, 2000

Markiewicz M, Rubinchik S, Dong J-Y, LeRoy EC, and Trojanowska, M. Effect of human cytomegalovirus (HCMV) on fibrotic process in dermal fibroblasts. *Arthr.&Rheum.* 43 (suppl.), Abstract 1146, 2000.

Markiewicz M, Rubinchik S, Dong J-Y, LeRoy EC, and Trojanowska M. Effect of human cytomegalovirus on fibrosis in dermal fibroblasts. *Mol Biol Cell* 11 (suppl) A1401, 2000

Markiewicz M, Rubinchik S, Dong JY, Trojanowska M, and LeRoy EC. Human cytomegalovirus immediate early protein 1(hCMV IE1) is a potent activator of extracellular matrix genes via induction of connective tissue growth factor (CTGF). *Mol Biol Cell* (suppl)A 2539, 2001

Markiewicz M, Sato M, Yamanaka Y, Bielawska A, Bielawski J, Obeid L, Hannun Y, and Trojanowska M. TGF- $\beta$  signaling is modulated by endogenous sphingolipids. *The Proceeding of the First Meeting of The American Society for Matrix Biology* p.126, 2002

Kubo M, Markiewicz M, Moussa O, Watson P, Spyropoulos D, Watson DK, Trojanowska M. Development of skin fibrosis and microvascular injury in mice with reduced levels of Fli1 (Fli1<sup>+/-</sup>). *Arthr&Rheum* 48 (suppl), A1746, 2003

Markiewicz M, Kubo M, Childress R, Watson DK, and Trojanowska M. Development of skin fibrosis and microvessel injury in mice with reduced levels of Fli1 (Fli1<sup>+/-</sup>). VII International Workshop on Scleroderma Research, Cambridge, UK, 2004.

Markiewicz M, Kubo M, Znoyko S, Szalai G, Watson DK, Trojanowska M. Fli1 regulates collagen synthesis in mouse skin *in vivo*. *The American Society for Matrix Biology* p.49, 2004

Markiewicz M, Kubo M, Znoyko S, Szalai G, Watson DK, Trojanowska M. Fli1 represses fibrillar collagen genes in mouse skin. VIII International Workshop on Scleroderma Research, Boston, 2006.

Asano Y, Znoyko S, Markiewicz M, Watson DK, Trojanowska M. The role of Fli1 in the collagen processing and fibrillogenesis. VIII International Workshop on Scleroderma Research, Boston, 2006

Markiewicz M, Asano Y, Watson DK, Trojanowska M. Suppression of Fli1 activates profibrotic gene program in vivo. The American Society for Matrix Biology p.35, 2006

Markiewicz M, Svenson J, Gilkeson G, Trojanowska M. Role of estrogen receptors in collagen fibrillogenesis in the mouse skin. Gordon Research Conferences, Biology of Aging, Les Diablerets, Switzerland, 2007

Markiewicz M, Svenson J, Gilkeson G, Trojanowska M. Role of estrogen receptors in collagen fibrillogenesis in the mouse skin. Department of Medicine Research Day, MUSC, Charleston, SC, 2007

Markiewicz M, Svenson J, Gilkeson G, Trojanowska M. Role of estrogen receptors in collagen fibrillogenesis in skin aging. South Carolina Aging Research Conference, Clemson University, Institute of Engaged Aging, Clemson, SC, 2008

Lenna S, Kapanadze B, Tan F, Markiewicz M, Bujor A, Trojanowska M, Scorza R. The Role of HLA-B35 in Endothelial Cell Dysfunction. *Arthr.&Rheum.* Vol 58, # 9 (suppl.), Abstract 111140, 2008.

### **Publications**

Gore-Hyer E, Shegogue D, Markiewicz M, Lo S, Hazen-Martin D, Greene E, Grotendorst G, Trojanowska M. TGF- $\beta$  and CTGF have overlapping and distinct fibrogenic effects on human renal cells. *Am J Phys* 238:F707-F716, 2002.

Sato M, Markiewicz M, Yamanaka Y, Bielawska A, Obeid L, Hannun Y, and Trojanowska M. Modulation of Transforming Growth Factor $\beta$  (TGF $\beta$ ) signaling by endogenous sphingolipid mediators. *J Biol Chem*, 278:9276-9282, 2003.

Kubo M, Czuwara-Ladykowska J, Moussa O, Markiewicz M, Smith E, Silver Richard M, Jablonska S, Blaszczyk M, Watson Dennis K, and Trojanowska M. Persistent downregulation of Fli1, a suppressor of collagen transcription, in fibrotic scleroderma skin. *Am J of Pathology* 163 (2), 571-581, 2003.

Markiewicz M, Smith EA, Rubinchik S, Dong J-Y, Trojanowska M, LeRoy EC. The 72-kilodalton IE-1 protein of human cytomegalovirus (hCMV) is a potent inducer of connective tissue growth factor (CTGF) in human dermal fibroblasts. *Clin Exp Rheum*, 22 (suppl 33):S31-S34, 2004.

Markiewicz M, Kapanadze B, Trojanowska M. Involvement of CTGF in capillary-like cord formation induced by Sphingosine-1 Phosphate. The Proceedings of Miami Nature Biotechnology Winter Symposium. Vol. 17, 2006

Yamasaki M, Kapanadze B, Markiewicz M, Trojanowska M. Downregulation of Fli1 in human dermal microvascular endothelial cells promotes cell survival and leads to cord formation in 3\_collagen gels. The Proceedings of Miami Nature Biotechnology Winter Symposium. Vol. 17, 2006

Nakerakanti S, Kapanadze B, Yamanaki M, Markiewicz M, Trojanowska M. Fli1 and Ets1 have distinct roles in the CTGF/CCN2 gene regulation and induction of the profibrotic gene program. J Biol Chem , 281; 25259-25269,2006.

Markiewicz M, Asano Y, Znoyko S, Gong Y, Watson DK, Trojanowska M. Distinct effect of gonadectomy in male and female mice on collagen fibrillogenesis in the skin. J Derm Science, 47; 217-226, 2007

Chintalapudi MR, Markiewicz M, Kose N, Dammai V, Hoda RS, Trojanowska M, Hsu T. CYR 61/CCN1 and CTG/CCN2 mediate the pro-angiogenic activity of VHL mutant renal carcinoma cells. Carcinogenesis, Jan22; 2008

Asano Y, Markiewicz M<sup>#</sup>, Kubo M, Szalai G, Watson DK, Trojanowska M. Transcription factor Fli1 regulates collagen fibrillogenesis in mouse skin. Mol Cell Biol, 29(2); 425-34, 2009  
<sup>#</sup> equally first author